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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/680,177	10/05/2000	Mitsuaki Oshima	2000-1391	6208
7	590 07/11/2003			
Wenderoth Lind & Ponack L L P			EXAMINER	
2033 K Street 1 Suite 800		$\epsilon_{\nu}$	LE, AMANDA T	
Washington, D	C 20006		ART UNIT	PAPER NUMBER
			2634 DATE MAILED: 07/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/680,177	OSHIMA ET AL.	<b>W</b> 2
Office Action Summary	Examiner	Art Unit	
	Amanda T Le	2634	
The MAILING DATE of this communication ap	l		ss
Period for Reply	VIC CET TO EVOIDE OF	AONTH (O) EDOM	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by stratut - Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a ply within the statutory minimum of thi will apply and will expire SIX (6) MO e, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this comm	unication.
1) Responsive to communication(s) filed on 24	April 2003 .		•
2a)⊠ This action is <b>FINAL</b> . 2b)□ TI	his action is non-final.	. ·	
3) Since this application is in condition for allow			nerits is
closed in accordance with the practice under <b>Disposition of Claims</b>	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.	
4)⊠ Claim(s) <u>30-35</u> is/are pending in the applicati	on.		•
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>30-35</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.	•	
Application Papers			
9) The specification is objected to by the Examine			
10)⊠ The drawing(s) filed on <u>24 April 2003</u> is/are: a)		•	
Applicant may not request that any objection to the state of the state			
If approved, corrected drawings are required in re		j disapproved by the Examiner.	•
12) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	& 119(a)-(d) or (f)	
a) All b) Some * c) None of:	· ·	3 (4) 6. (1).	
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen		Application No.	
3. Copies of the certified copies of the price			ige
application from the International Bu * See the attached detailed Office action for a list			
14) Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C	. § 119(e) (to a provisional ap	plication).
a) The translation of the foreign language pro	• •		
Attachment(s)	, , , , , , , , , , , , , , , , , , , ,		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s). Informal Patent Application (PTO-15	
S Patent and Trademark Office			

Application/Control Number: 09/680,177

Art Unit: 2634

## Response to Arguments

1. Applicant's arguments with respect to claims 30-35 have been considered but are moot in view of the new ground(s) of rejection.

# Specification

2. A substitute specification is required pursuant to 37 CFR 1.125(a) because the length of the changes could cause mistakes during the process of entering the amendments.

A substitute specification filed under 37 CFR 1.125(a) must only contain subject matter from the original specification and any previously entered amendment under 37 CFR 1.121. If the substitute specification contains additional subject matter not of record, the substitute specification must be filed under 37 CFR 1.125(b) and must be accompanied by: 1) a statement that the substitute specification contains no new matter; and 2) a marked-up copy showing the amendments to be made via the substitute specification relative to the specification at the time the substitute specification is filed.

#### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

Application/Control Number: 09/680,177

Art Unit: 2634

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 30-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Farias et al (IDS filed on 01/05/01) in view of Fazel et al (5,218,622).

Regarding claims 30, 32, 33, 35, Farias et al discloses a transmission system comprising the following claimed limitations: "a first ECC encoder" (col. 10, lines 55-58), "a second ECC" (Fig. 2, block 118), "a modulator" (Fig. 2, 116, 122, 142, 129, 136, 141, 130), "a transmitter" (Fig. 2, 130), "the first data stream has data for demodulation for demodulating the modulated signals corresponding to the second data stream" (Fig. 10, block 206, 190).

Regarding claims 31, 32, 34, 35, Farias et al further teaches the following claimed limitations: "a demodulator" (Fig. 10, block 188, 190, 206), "first ECC decoder" (col. 10, lines 55-58), "second ECC decoder" (Fig. 10, block 195).

For the above claims, Farias et al does not specifically teach that "BCH" and "Reed Solomon" coding/decoding technique are used. Nonethless, Farias et al does teach "any number of conventional signal constellations and modulation schemes can be used for either the main channel or the secondary channel" (col. 10, lines 64-67, 8-14). Further, using "BCH" and "Reed Solomon" coding/decoding for error correction purpose is well known in the art at the time of the invention (see Fazel et al, col. 9, lines 55-col. 10, line 2). Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Farias et al's

Application/Control Number: 09/680,177

Art Unit: 2634

error correction coding/decoding circuit using conventional ECC techniques. Such modification is a matter of choice to meet the design criteria of a particular application.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda Le whose telephone number is (703) 305-4769.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Stephen Chin**, can be reached at (703) 305-4714.

## Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

AMANDA T. LE PRIMARY EXAMINER